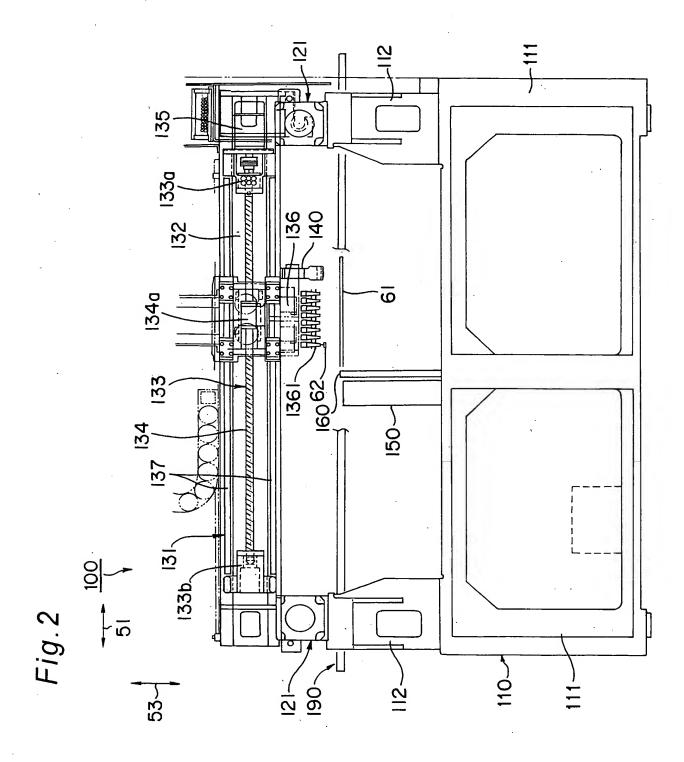
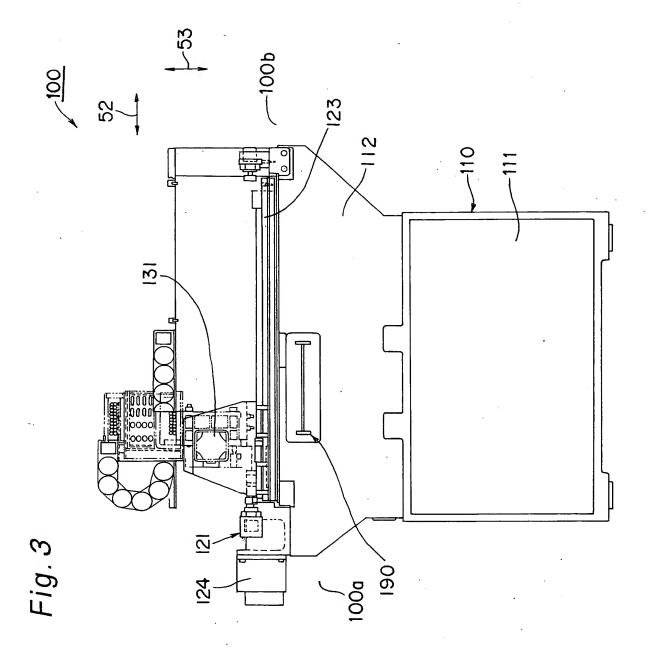


" Leaby Liegh



· 6 . .





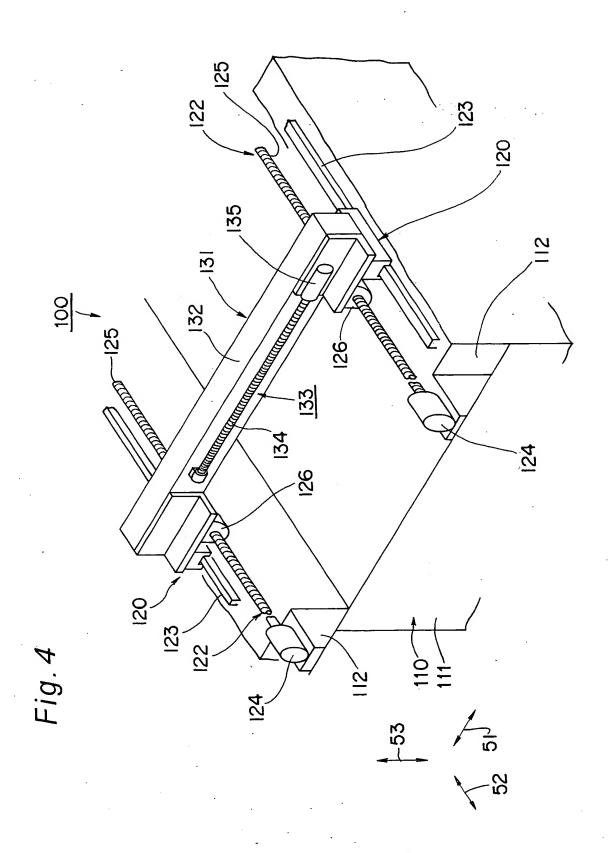


Fig. 5

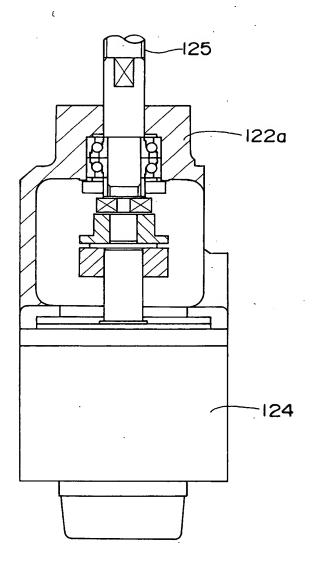


Fig. 6

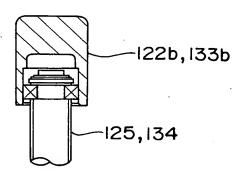


Fig. 7

4 1.

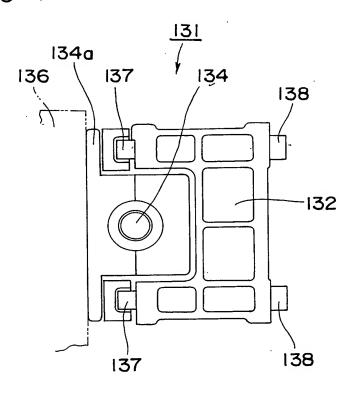


Fig. 8

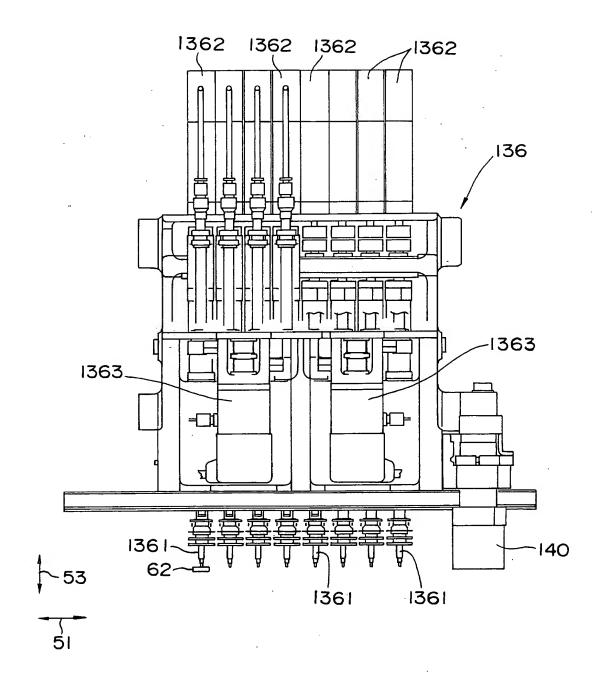


Fig. 9

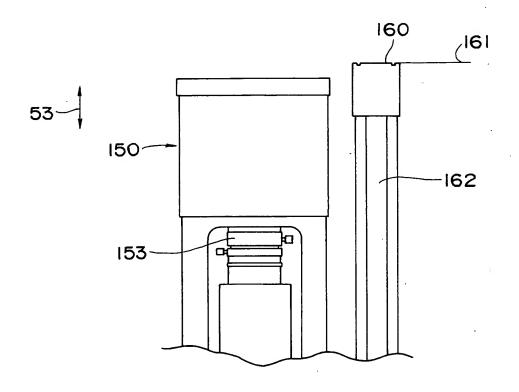
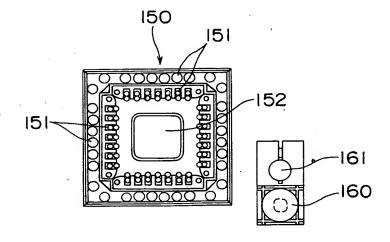
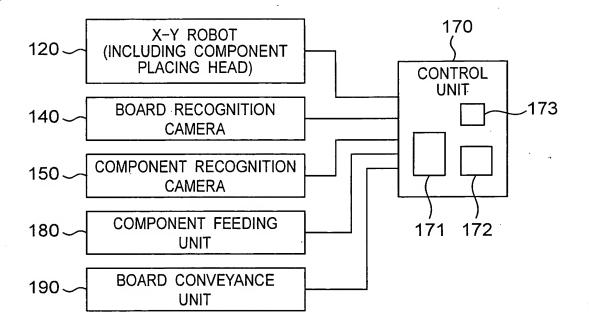


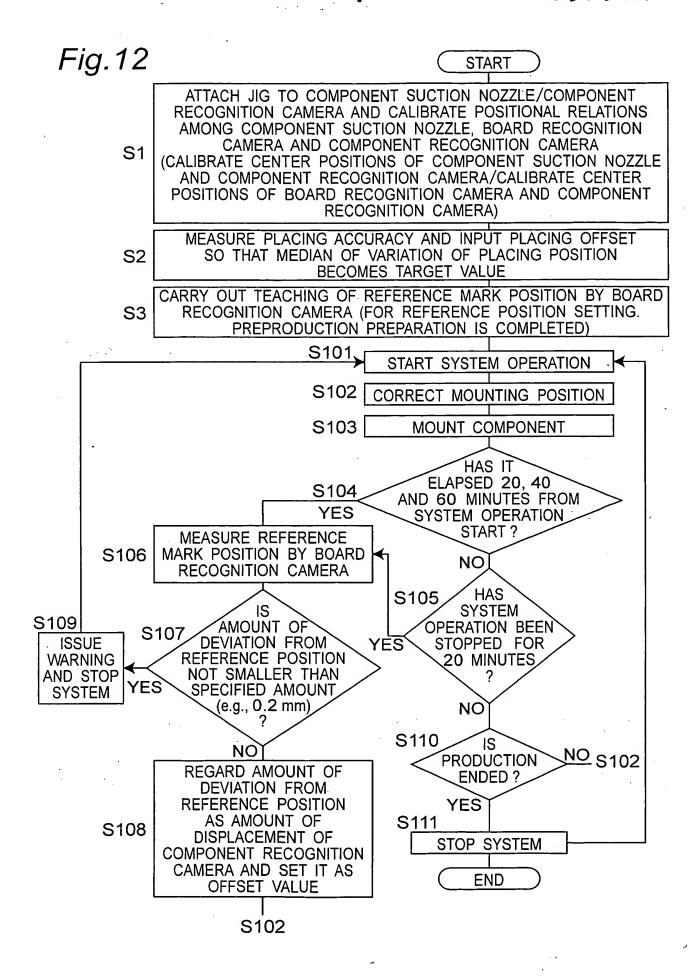
Fig. 10

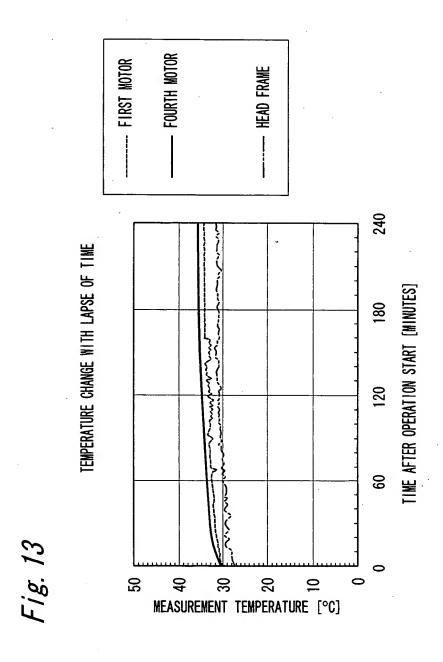


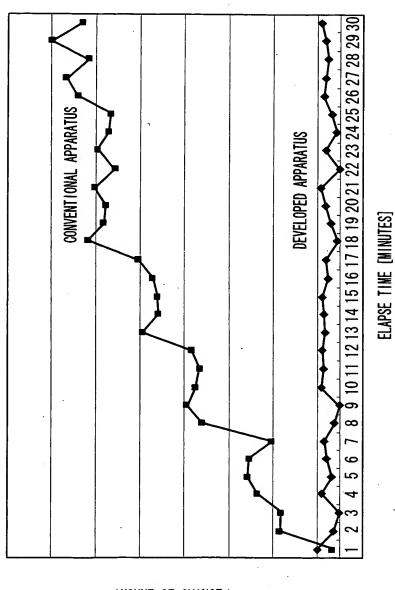
The wife.

Fig.11









AMOUNT OF CHANGE

. ..

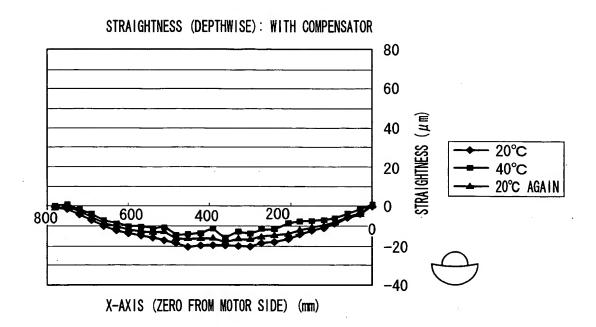


Fig. 16

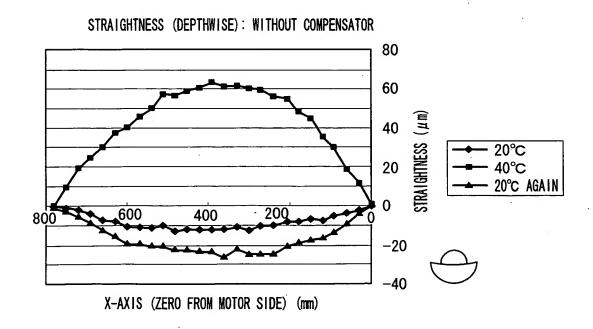
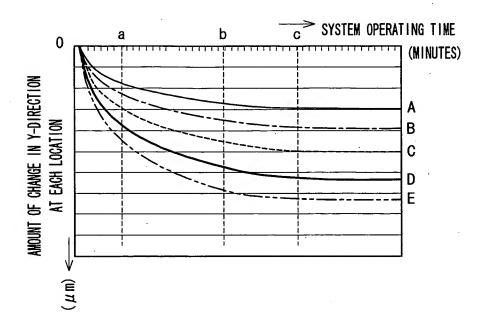


Fig. 17



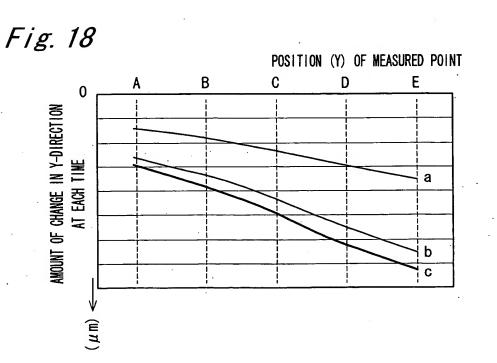


Fig. 19

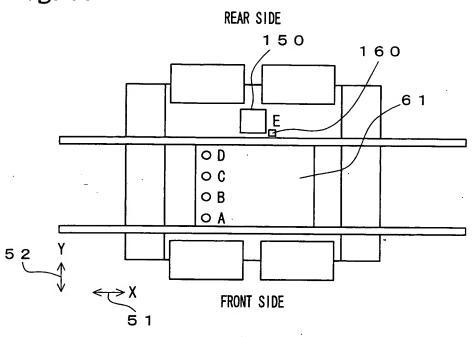


Fig. 20

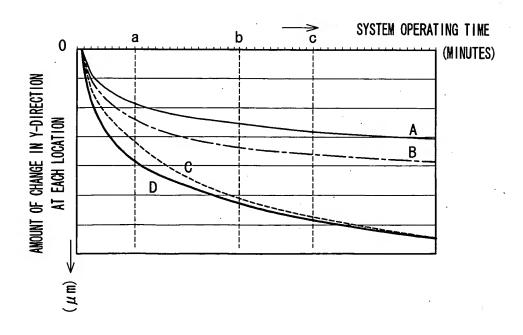


Fig. 21

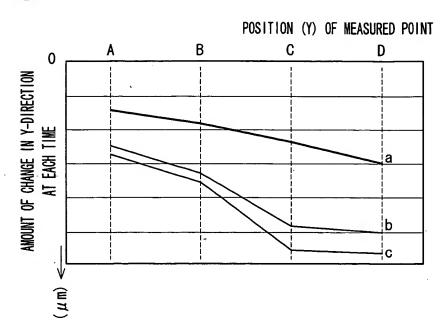


Fig. 22

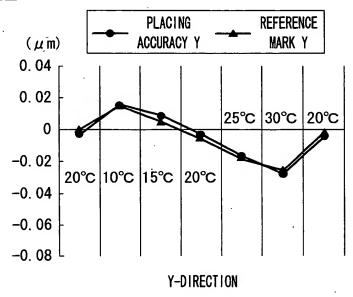


Fig. 23

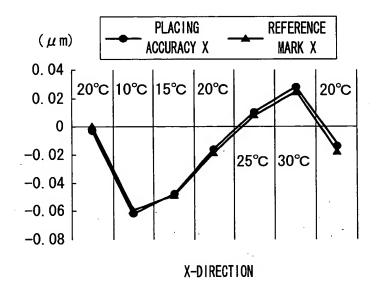


Fig. 24

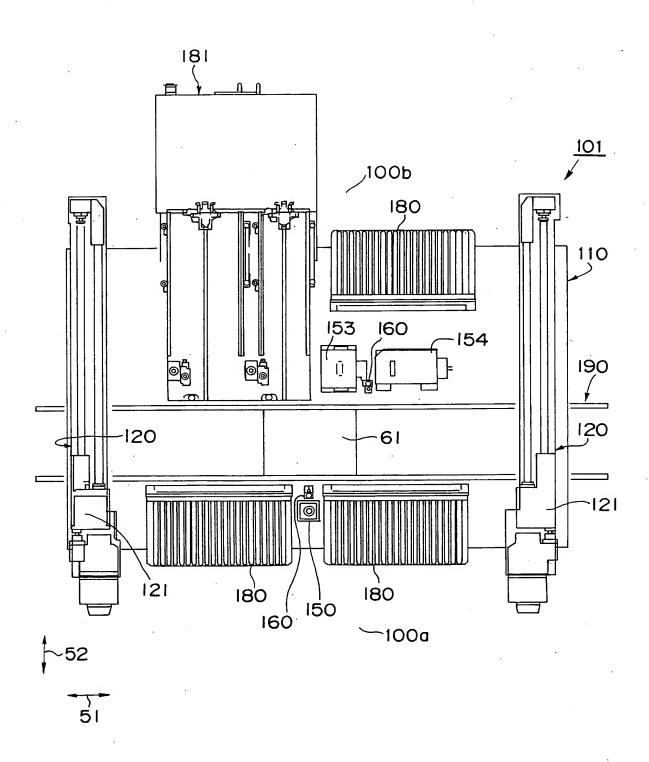


Fig. 25

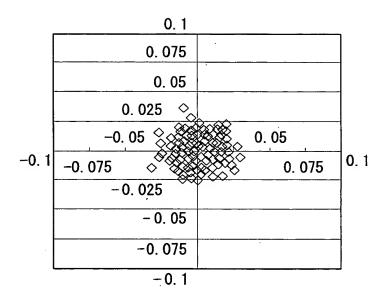


Fig. 26

·			0.1				_
	0. 075			<b>\</b>	<b>.</b>		
	0.05 💠						
	0. 025						
	-0. 05 O					<b>*</b>	
<b>−</b> 0. 1	-0. 075	-0.	025	0.	025	0. 075	0.1
	- 0. 025						
	-0.05					· · · · · · · · · · · · · · · · · · ·	<u> </u>
	-0. 075						
			-0. 1		<del></del>		

Fig. 27

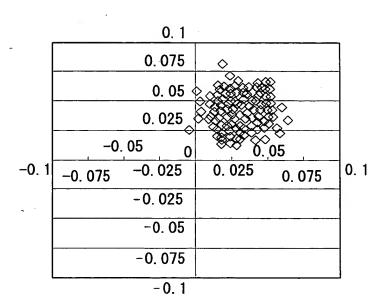


Fig. 28

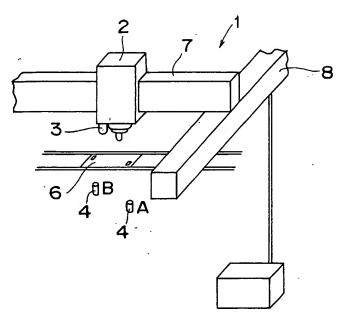


Fig. 29

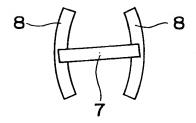
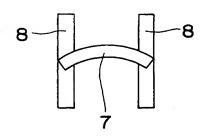
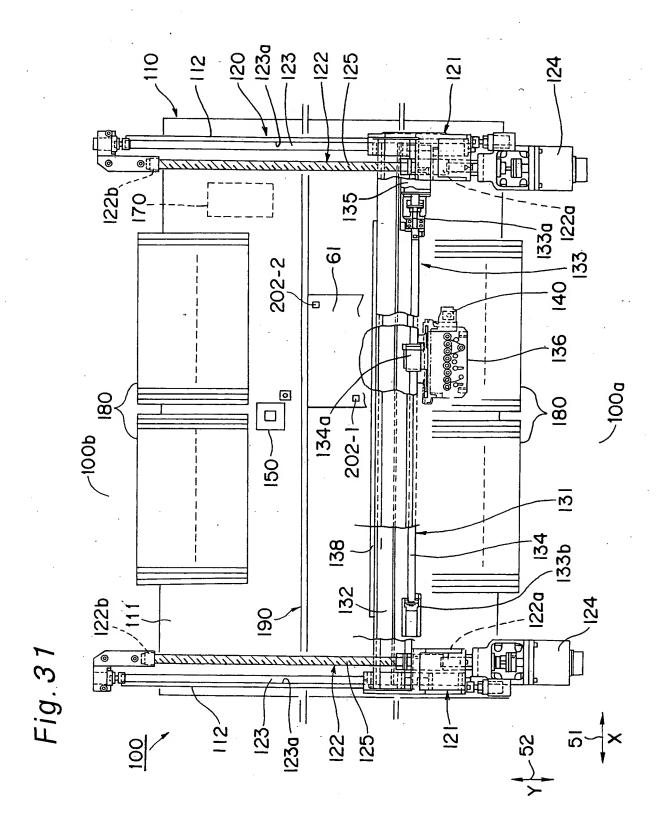
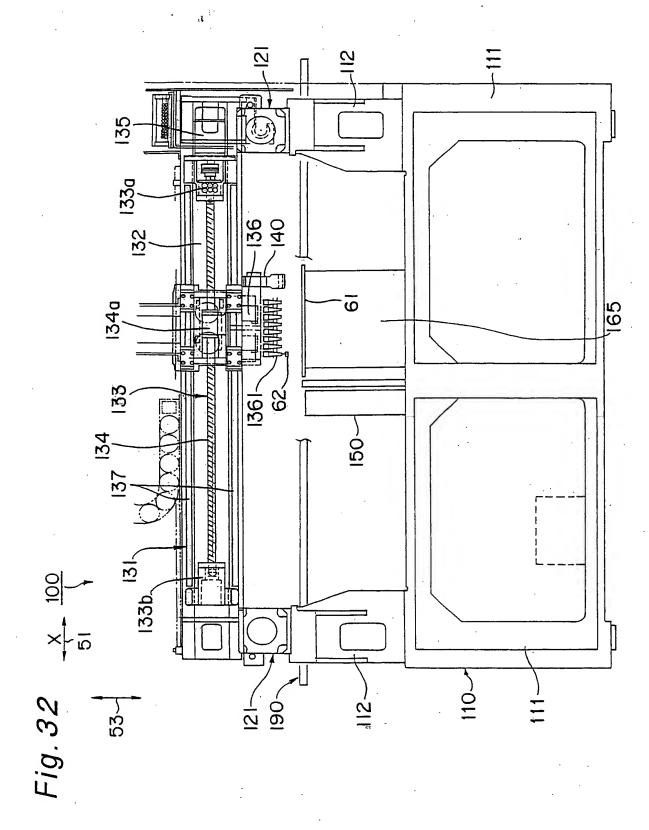


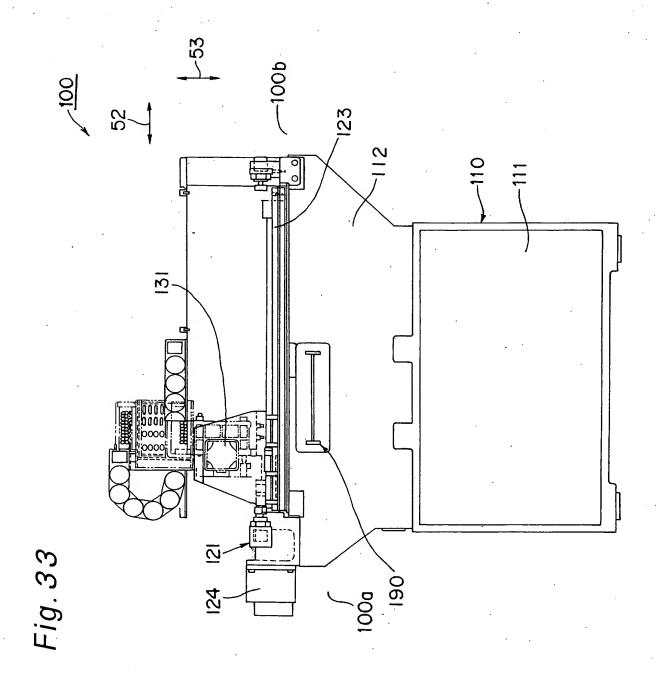
Fig. 30





" Dr. Front Flik





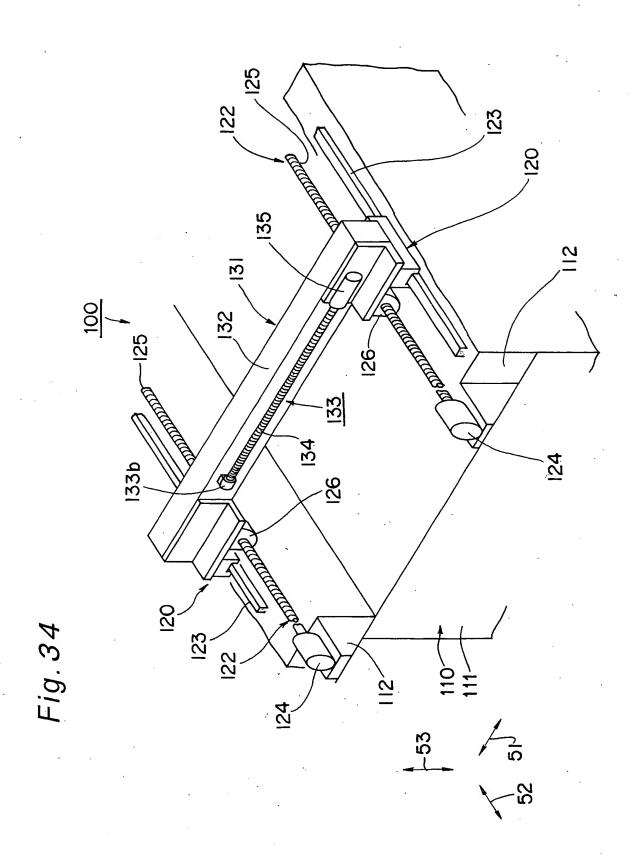


Fig. 35

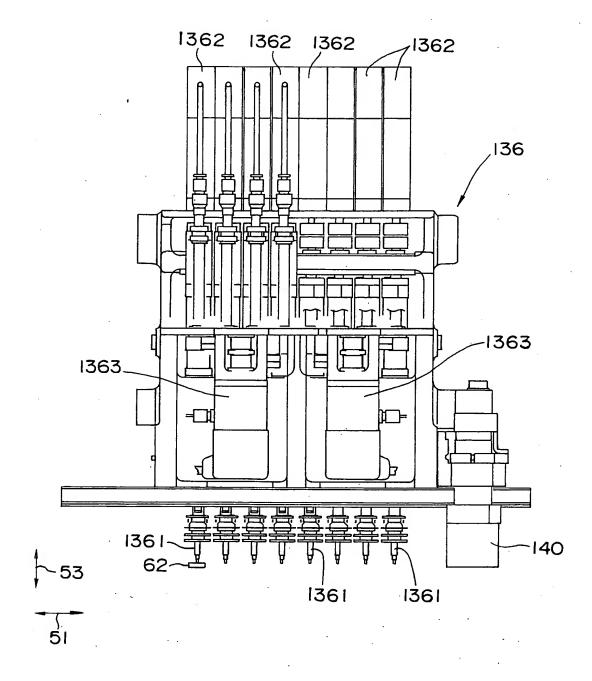


Fig.36

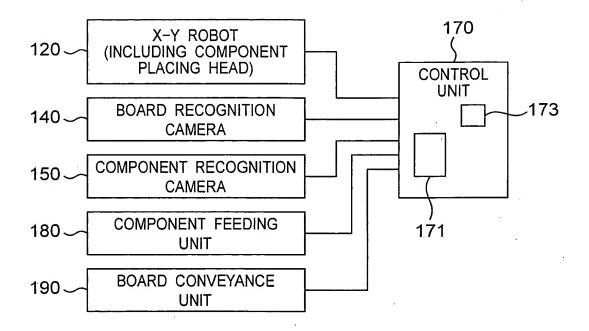


Fig.37

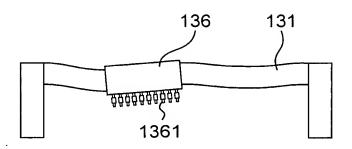


Fig.38

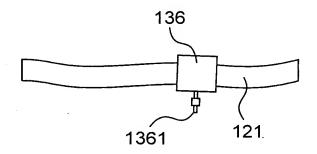


Fig.39

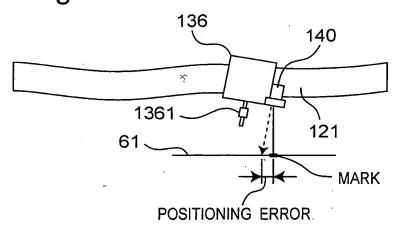


Fig.40

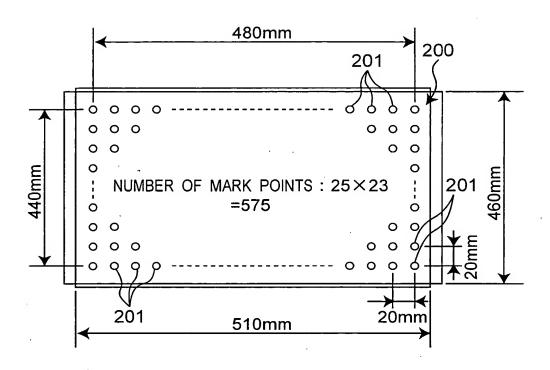
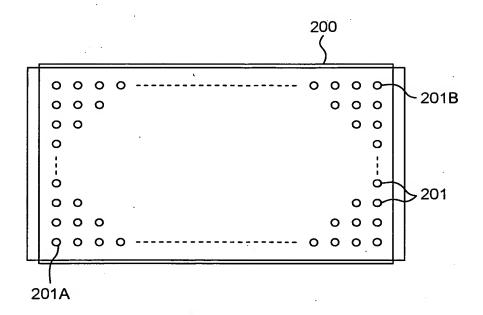


Fig.41 START **S1** POSITION REFERENCE MARK RECOGNITION REFERENCE BOARD **S2** RECOGNIZE POSITION COORDINATES OF REFERENCE MARKS **S3** OBTAIN POSITION COORDINATES OF RECOGNIZED REFERENCE MARKS OBTAIN DIFFERENCE BETWEEN NC COORDINATES AND POSITION **S4** COORDINATES OF REFERENCE MARKS AS CORRECTION VALUES OBTAIN NC COORDINATES OF POSITION COORDINATES OF AT LEAST **S5** TWO BOARD REFERENCE POSITION CALCULATION MARKS OF COMPONENT MOUNTING BOARD EXTRACT REFERENCE MARK LOCATED NEAR TO TWO BOARD **S6** REFERENCE POSITION CALCULATION MARKS OBTAIN OFFSET VALUES OF REFERENCE MARKS BY SUBJECTING POSITION COORDINATES OF EXTRACTED REFERENCE MARK TO **S7** COORDINATE TRANSFORMATION SO THAT CORRECTION VALUES OF EXTRACTED REFERENCE MARK BECOME ZERO OR SUBSTANTIALLY ZERO POSITION COMPONENT MOUNTING BOARD IN COMPONENT **S8** PLACING REGION RECOGNIZE AT LEAST TWO BOARD REFERENCE POSITION CALCULATION MARKS OF COMPONENT MOUNTING BOARD AND OBTAIN **S9** POSITION COORDINATES OF RECOGNIZED TWO BOARD REFERENCE POSITION CALCULATION MARKS CORRECT NC COORDINATES OF TWO BOARD REFERENCE POSITION S10 CALCULATION MARKS BASED ON POSITION COORDINATES OF OBTAINED TWO BOARD REFERENCE POSITION CALCULATION MARKS CORRECT COMPONENT PLACING POSITION BASED ON OFFSET VALUE S11 OF REFERENCE MARK LOCATED NEAREST TO RECOGNIZING UNIT PROVIDED FOR COMPONENT HOLDING HEAD **S12** PLACE COMPONENT IN COMPONENT PLACING POSITION

**END** 

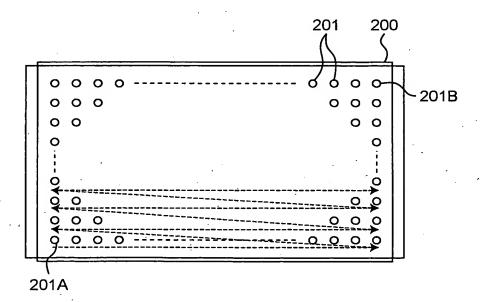
"The "To

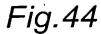
Fig. 42



The trail

Fig. 43





The same of the same of

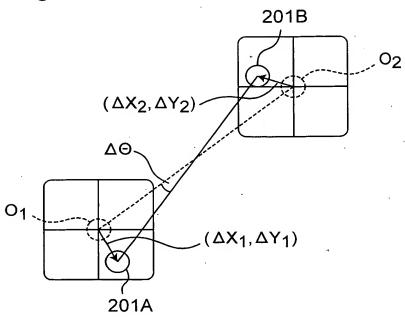


Fig.45

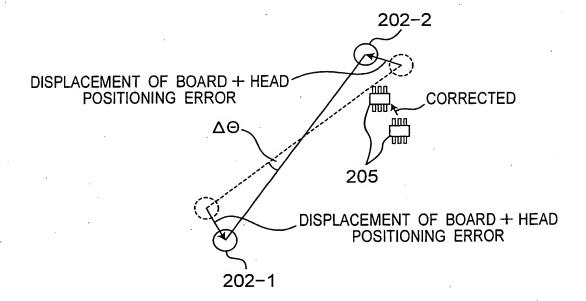


Fig. 46

## ORIGINAL DATA OF AREA OFFSET

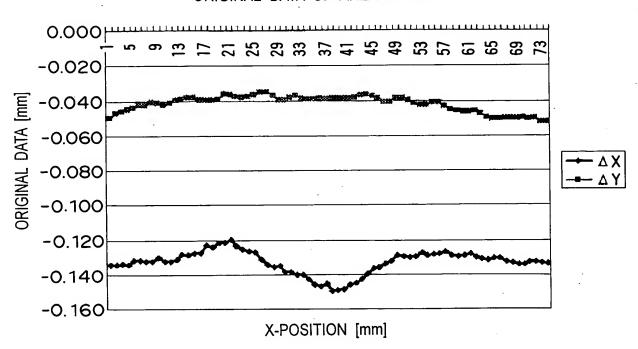


Fig. 47

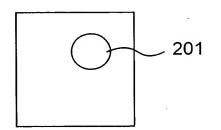


Fig.48

## DATA AFTER AREA OFFSET CONVERSION

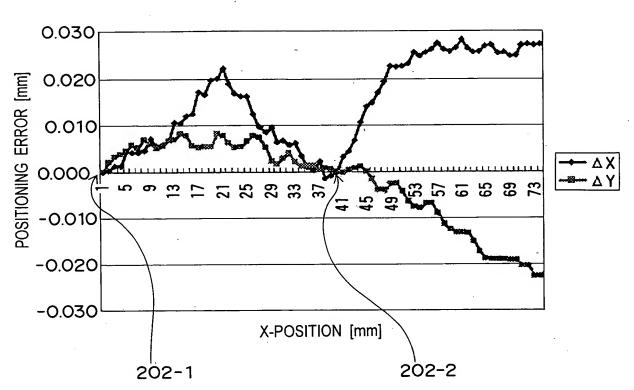


Fig. 49

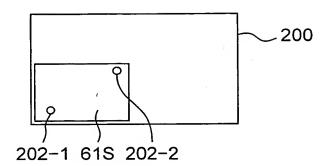


Fig. 50

DATA AFTER AREA OFFSET CONVERSION

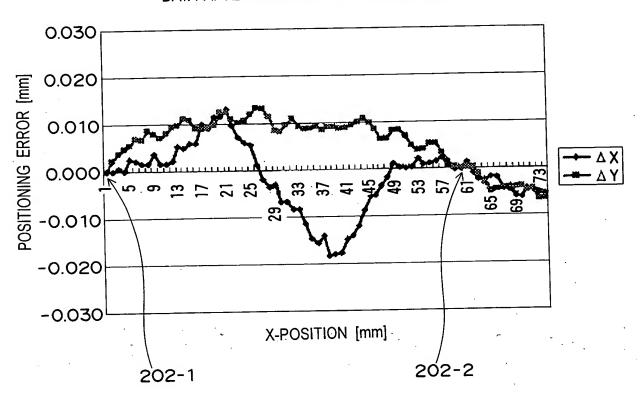


Fig. 51

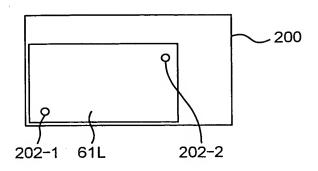


Fig. 52

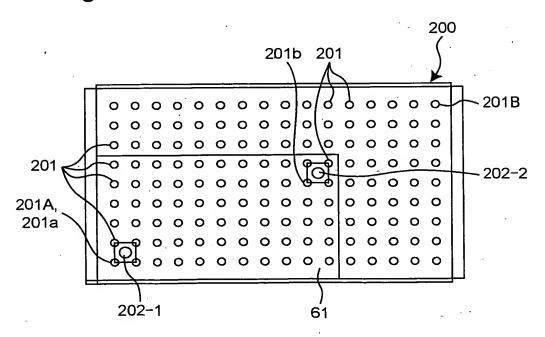


Fig.53

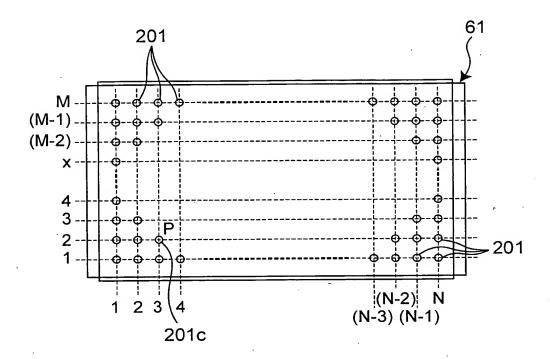


Fig.54

S13A	SELECT TYPE PROGRAM FOR AREA OFFSET MEASUREMENT	
'		
S13B	SET GLASS BOARD	
. '		
S13C	START REFERENCE MARK RECOGNITION OPERATION	

## Fig.55

S21	SELECT TYPE (TRANSFER PROGRAM)
S22	CALCULATE REFERENCE MARK POSITION BY CORRESPONDING PROGRAM
S23	EXTRACT REFERENCE MARKS (TWO POINTS) LOCATED NEAREST TO BOARD MARK POSITION FROM GRID ON GLASS BOARD
ĺ	OBTAIN PARALLEL DEVIATION AND INCLINATION
S24	FROM RECOGNITION RESULTS OF REFERENCE MARKS AT TWO POINTS
S25	CORRECT RECOGNITION RESULTS OF REFERENCE MARKS IN POSITIONS INCLUDING BOARD AREAS BY PARALLEL DEVIATION AND INCLINATION AND STORE RESULTS

## Fig. 56

S31	POSITION AND PLACING POSITION
S32	ADD OFFSET VALUES OF AREA CORRESPONDING TO MOVEMENT POSITION OF STEP S31

Fig. 57

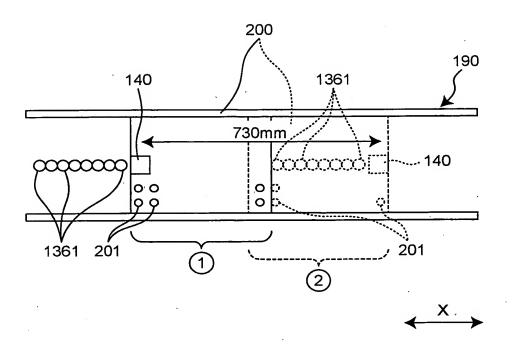


Fig.58

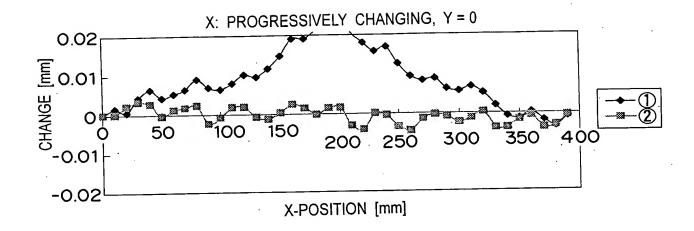


Fig. 59

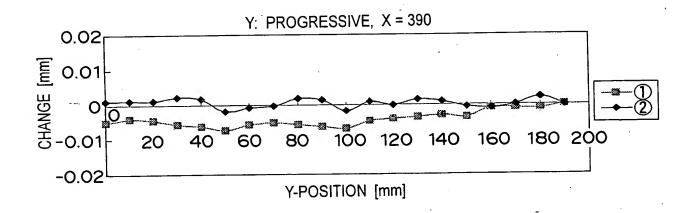


Fig.60

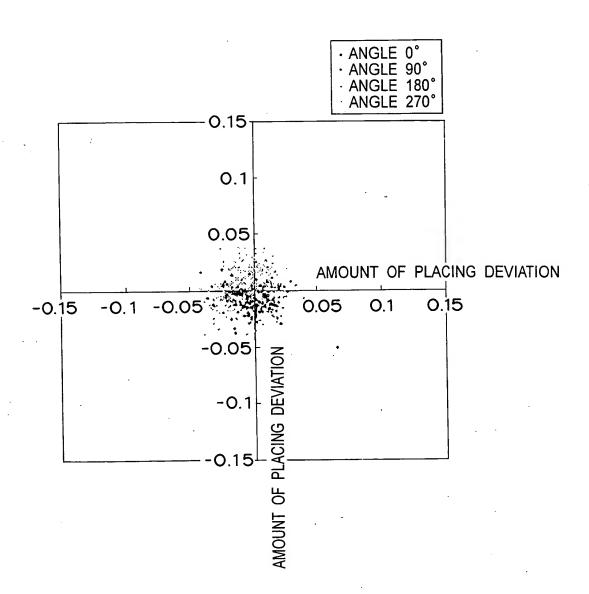


Fig. 61.

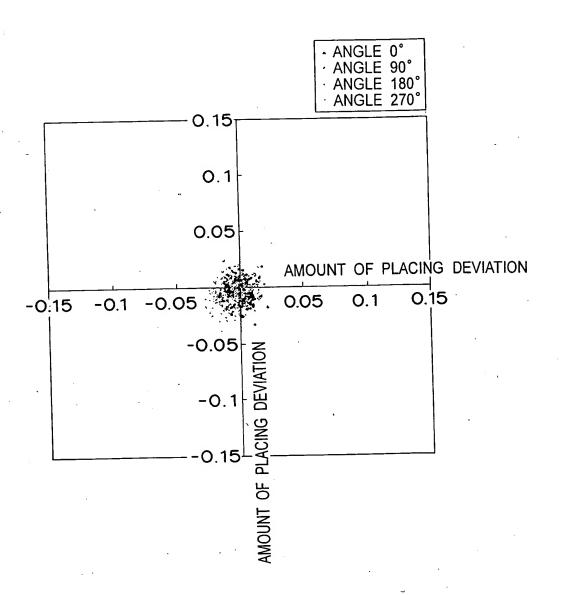


Fig. 62

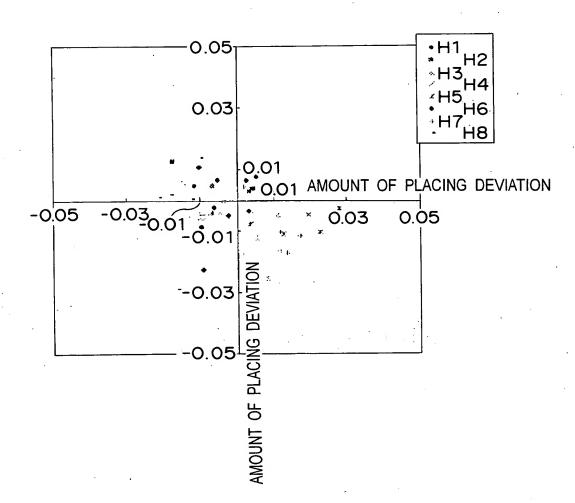


Fig.63

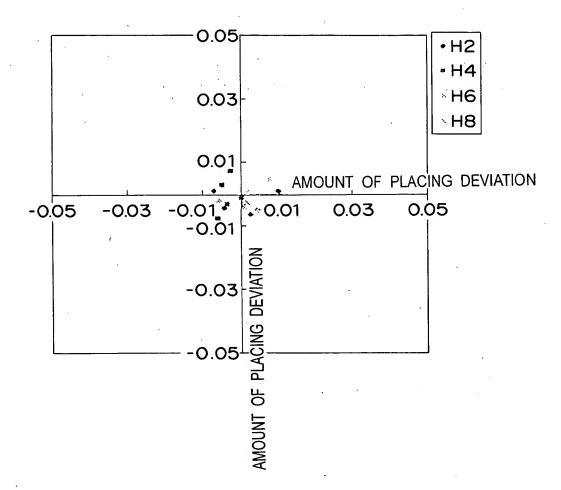
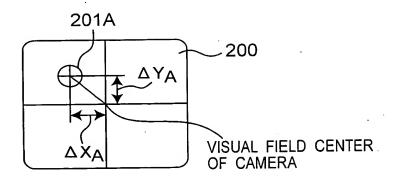
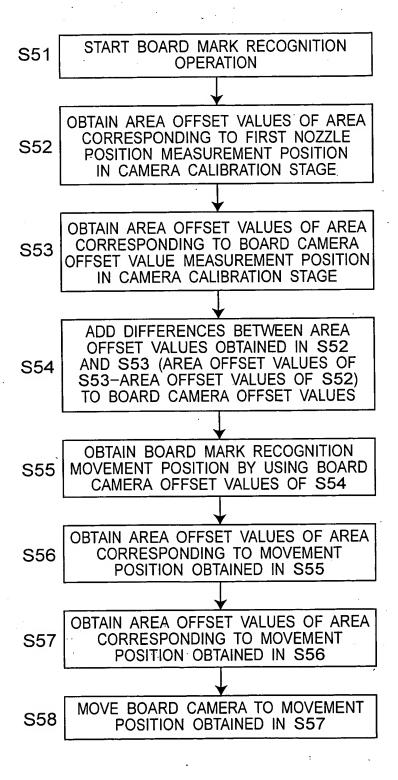


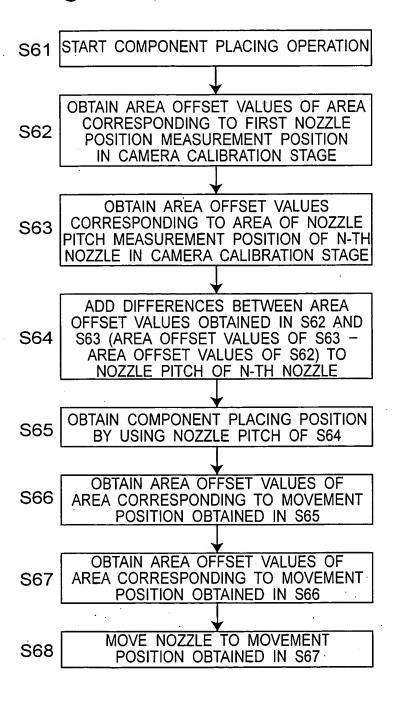
Fig.64

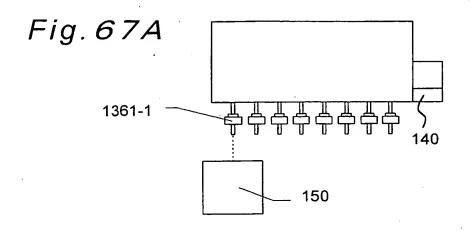


## Fig.65



## Fig.66





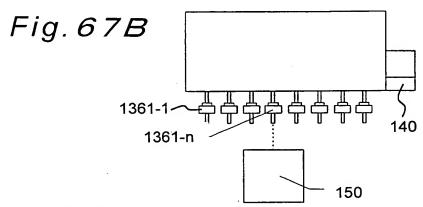


Fig. 67C

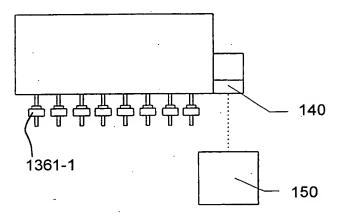


Fig.68

